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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/430,806A

DATE: 10/20/2000
 TIME: 12:28:21

Input Set : A:\430806a.txt
 Output Set : N:\CRF3\10202000\I430806A.raw

4 110> APPLICANT: Vinkemeier, Uwe
 5 Darnell Jr., James E.
 10 120> TITLE OF INVENTION: PURIFIED STAI PROTEINS AND METHODS OF PURIFYING THEREOF
 11 130> FILE REFERENCE: 690-1-182 N
 12 140> CURRENT APPLICATION NUMBER: 09/430,806A
 13 141> CURRENT FILING DATE: 1999-11-02
 14 150> PRIOR APPLICATION NUMBER: 08/351,130
 15 151> PRIOR FILING DATE: 1997-10-15
 16 152> PRIOR APPLICATION NUMBER: 60/028,175
 17 153> PRIOR FILING DATE: 1995-10-15
 18 160> NUMBER OF SEQ ID NOS: 15
 19 170> SOFTWARE: Patent In Ver. 2.0
 20 210> SEQ ID NO: 1
 21 211> LENGTH: 750
 22 212> TYPE: PRT
 23 213> ORGANISM: Homo sapiens
 24 400> SEQUENCE: 1
 33 Met Ser Gln Trp Tyr Gln Leu Gln Gln Leu Asp Ser Lys Phe Leu Glu
 55 1 5 10 15
 59 Gln Val His Gln Leu Tyr Asp Asp Ser Phe Pro Met Glu Ile Arg Gln
 61 20 25 30
 65 Tyr Leu Ala Gln Trp Leu Glu Lys Gln Asp Trp Glu His Ala Ala Asn
 67 35 40 45
 71 Asp Val Ser Phe Ala Thr Ile Arg Phe His Asp Leu Leu Ser Gln Leu
 73 50 55 60
 77 Asp Asp Gln Tyr Ser Arg Phe Ser Leu Glu Asn Asn Phe Leu Leu Gln
 79 65 70 75 80
 83 His Asn Ile Arg Lys Ser Lys Arg Asn Leu Gln Asp Asn Phe Gln Glu
 85 85 90 95
 89 Asp Pro Ile Gln Met Ser Met Ile Ile Tyr Ser Cys Leu Lys Glu Glu
 91 100 105 110
 95 Arg Lys Ile Leu Glu Asn Ala Gln Arg Phe Asn Gln Ala Gln Ser Gly
 97 115 120 125
 101 Asn Ile Gln Ser Thr Val Met Leu Asp Lys Gln Lys Glu Leu Asp Ser
 103 130 135 140
 107 Lys Val Arg Asn Val Lys Asp Lys Val Met Cys Ile Glu His Glu Ile
 109 145 150 155 160
 113 Lys Ser Leu Glu Asp Leu Gln Asp Glu Tyr Asp Phe Lys Cys Lys Thr
 115 165 170 175
 119 Leu Gln Asn Arg Glu His Glu Thr Asn Gly Val Ala Lys Ser Asp Gln
 121 180 185 190
 125 Lys Gln Glu Gln Leu Leu Leu Lys Lys Met Tyr Leu Met Leu Asp Asn
 127 195 200 205
 131 Lys Arg Lys Glu Val Val His Lys Ile Ile Glu Leu Leu Asn Val Thr
 133 210 215 220
 137 Glu Leu Thr Gln Asn Ala Leu Ile Asn Asp Glu Leu Val Glu Trp Lys
 139 225 230 235 240

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/410,806A

DATE: 10/20/2000
 TIME: 12:28:21

Input Set: A:\430806a.txt
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142 Arg Arg Gln Gln Ser Ala Cys Ile Gly Gly Pro Pro Asn Ala Cys Leu
145      245      250      255
146 Asp Gln Leu Gln Asn Trp Phe Thr Ile Val Ala Glu Ser Leu Gln Gln
151      260      265      270
155 Val Arg Gln Gln Leu Lys Lys Leu Gln Gln Leu Glu Gln Lys Tyr Thr
157      275      280      285
161 Tyr Glu His Asp Pro Ile Thr Lys Asn Lys Gln Val Leu Trp Asp Arg
163      290      295      300
167 Thr Phe Ser Leu Phe Gln Gln Leu Ile Gln Ser Ser Phe Val Val Glu
169 305      310      315      320
172 Arg Gln Pro Cys Met Pro Thr His Pro Gln Arg Pro Leu Val Leu Lys
174      325      330      335
176 Thr Gly Val Gln Phe Thr Val Lys Leu Arg Leu Leu Val Lys Leu Gln
181      340      345      350
183 Glu Leu Asn Tyr Asn Leu Lys Val Lys Val Leu Phe Asp Lys Asp Val
187      355      360      365
191 Asn Glu Arg Asn Thr Val Lys Gly Phe Arg Lys Phe Asn Ile Leu Gly
193      370      375      380
197 Thr His Thr Lys Val Met Asn Met Glu Glu Ser Thr Asn Gly Ser Leu
199 385      390      395      400
203 Ala Ala Glu Phe Arg His Leu Gln Leu Lys Glu Gln Lys Asn Ala Gly
205      405      410      415
209 Thr Arg Thr Asn Glu Gly Pro Leu Ile Val Thr Glu Glu Leu His Ser
211      420      425      430
215 Leu Ser Phe Glu Thr Gln Leu Cys Gln Pro Gly Leu Val Ile Asp Leu
217      435      440      445
221 Glu Thr Thr Ser Leu Pro Val Val Val Ile Ser Asn Val Ser Gln Leu
223      450      455      460
227 Pro Ser Gly Trp Ala Ser Ile Leu Trp Tyr Asn Met Leu Val Ala Glu
229 465      470      475      480
233 Pro Arg Asn Leu Ser Phe Phe Leu Thr Pro Pro Cys Ala Arg Trp Ala
235      485      490      495
239 Gln Leu Ser Glu Val Leu Ser Trp Gln Phe Ser Ser Val Thr Lys Arg
241      500      505      510
245 Gly Leu Asn Val Asp Gln Leu Asn Met Leu Gly Glu Lys Leu Leu Gly
247      515      520      525
251 Pro Asn Ala Ser Pro Asp Gly Leu Ile Pro Trp Thr Arg Phe Cys Lys
253      530      535      540
257 Glu Asn Ile Asn Asp Lys Asn Phe Pro Phe Trp Leu Trp Ile Glu Ser
259 545      550      555      560
263 Ile Leu Glu Leu Ile Lys Lys His Leu Leu Pro Leu Trp Asn Asp Gly
265      565      570      575
269 Cys Ile Met Gly Phe Ile Ser Lys Glu Arg Glu Arg Ala Leu Leu Lys
271      580      585      590
275 Asp Gln Gln Pro Gly Thr Phe Leu Leu Arg Phe Ser Glu Ser Ser Arg
277      595      600      605
281 Glu Gly Ala Ile Thr Phe Thr Trp Val Glu Arg Ser Gln Asn Gly Gly
283      610      615      620
287 Glu Pro Asp Phe His Ala Val Glu Pro Tyr Thr Lys Lys Glu Leu Ser

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/430,806A

DATE: 10/30/2000
TIME: 11:22:31Input Set : A:\430806a.txt
Output Set: N:\CRF3\10202000\1430806A.raw

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289 625      630      635      640
293 Ala Val Thr Phe Pro Asp Ile Ile Arg Asn Tyr Lys Val Met Ala Ala
295      645      650
299 Glu Asn Ile Pro Glu Asn Pro Leu Lys Tyr Leu Tyr Pro Asn Ile Asp
301      655      660
305 Lys Asp His Ala Phe Gly Lys Tyr Tyr Ser Arg Pro Lys Glu Ala Pro
307      665      680
311 Glu Pro Met Glu Leu Asp Gly Pro Lys Gly Thr Gly Tyr Ile Lys Thr
313      685      700
315 Glu Leu Ile Ser Val Ser Glu Val His Pro Ser Arg Leu Gln Thr Thr
319 705      710      715      720
323 Asp Asn Leu Leu Pro Met Ser Pro Glu Glu Phe Asp Glu Val Ser Arg
325      725      730      735
329 Ile Val Gly Ser Val Glu Phe Asp Ser Met Met Asn Thr Val
331      740      745      750
333 310- SEQ ID NO: 2
334 311- LENGTH: 212
335 312- TYPE: PRT
336 313- ORGANISM: Homo sapiens
337 3400- SEQUENCE: 2
338 Met Ser Glu Trp Tyr Glu Leu Gln Gln Leu Asp Ser Lys Phe Leu Glu
340 1      5      10      15
344 Gln Val His Gln Leu Tyr Asp Asp Ser Phe Pro Met Glu Ile Arg Gln
346      20      25      30
350 Tyr Leu Ala Gln Trp Leu Glu Lys Gln Asp Trp Glu His Ala Ala Asn
352      35      40      45
356 Asp Val Ser Phe Ala Thr Ile Arg Phe His Asp Leu Leu Ser Gln Leu
358      50      55      60
362 Asp Asp Gln Tyr Ser Arg Phe Ser Leu Glu Asn Asn Phe Leu Leu Gln
364      65      70      75      80
368 His Asn Ile Arg Lys Ser Lys Arg Asn Leu Gln Asp Asn Phe Gln Glu
370      85      90      95
374 Asp Pro Ile Gln Met Ser Met Ile Ile Tyr Ser Cys Leu Lys Glu Glu
376      100      105      110
380 Arg Lys Ile Leu Glu Asn Ala Gln Arg Phe Asn Gln Ala Gln Ser Gly
382      115      120      125
386 Asn Ile Gln Ser Thr Val Met Leu Asp Lys Gln Lys Glu Leu Asp Ser
388      130      135      140
392 Lys Val Arg Asn Val Lys Asp Lys Val Met Cys Ile Glu His Glu Ile
394      145      150      155
398 Lys Ser Leu Glu Asp Leu Gln Asp Glu Tyr Asp Phe Lys Cys Lys Thr
400      165      170      175
404 Leu Gln Asn Arg Glu His Glu Thr Asn Gly Val Ala Lys Ser Asp Gln
406      180      185      190
410 Lys Gln Glu Gln Leu Leu Leu Lys Lys Met Tyr Leu Met Leu Asp Asn
412      195      200      205
416 Lys Arg Lys Glu Val Val His Lys Ile Ile Glu Leu Leu Asn Val Thr
418      210      215      220
422 Glu Leu Thr Gln Asn Ala Leu Ile Asn Asp Glu Leu Val Glu Trp Lys

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RAW SEQUENCE LISTING

PATENT APPLICATION US'09/430,806A

DATE: 10/20/2000

TIME: 12:23:31

Input Set : A:\430806a.txt

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434 225      230      235      240
438 Arg Arg Gln Gln Ser Ala Cys Ile Gly Gly Pro Pro Asn Ala Cys Leu
439      245      250      255
444 Asp Gln Leu Gln Asn Trp Phe Thr Ile Val Ala Glu Ser Leu Gln Gln
446      260      265      270
450 Val Arg Gln Gln Leu Lys Lys Leu Gln Glu Leu Glu Gln Lys Tyr Thr
452      275      280      285
456 Tyr Glu His Asp Pro Ile Thr Lys Asn Lys Gln Val Leu Trp Asp Arg
458      290      295      300
462 Thr Phe Ser Leu Phe Gln Gln Leu Ile Gln Ser Ser Phe Val Val Glu
464 305      310      315      320
468 Arg Gln Pro Cys Met Pro Thr His Pro Gln Arg Pro Leu Val Leu Lys
470      325      330      335
474 Thr Gly Val Gln Phe Thr Val Lys Leu Arg Leu Leu Val Lys Leu Gln
476      340      345      350
480 Glu Leu Asn Tyr Asn Leu Lys Val Lys Val Leu Phe Asp Lys Asp Val
482      355      360      365
486 Asn Glu Arg Asn Thr Val Lys Gly Phe Arg Lys Phe Asn Ile Leu Gly
488      370      375      380
492 Thr His Thr Lys Val Met Asn Met Glu Glu Ser Thr Asn Gly Ser Leu
494 385      390      395      400
498 Ala Ala Glu Phe Arg His Leu Gln Leu Lys Glu Gln Lys Asn Ala Gly
500      405      410      415
504 Thr Arg Thr Asn Glu Gly Pro Leu Ile Val Thr Glu Glu Leu His Ser
506      420      425      430
510 Leu Ser Phe Glu Thr Gln Leu Cys Gln Pro Gly Leu Val Ile Asp Leu
512      435      440      445
516 Glu Thr Thr Ser Leu Pro Val Val Val Ile Ser Asn Val Ser Gln Leu
518      450      455      460
522 Pro Ser Gly Trp Ala Ser Ile Leu Trp Tyr Asn Met Leu Val Ala Glu
524 465      470      475      480
528 Pro Arg Asn Leu Ser Phe Phe Leu Thr Pro Pro Cys Ala Arg Trp Ala
530      485      490      495
534 Gln Leu Ser Glu Val Leu Ser Trp Gln Phe Ser Ser Val Thr Lys Arg
536      500      505      510
540 Gly Leu Asn Val Asp Gln Leu Asn Met Leu Gly Glu Lys Leu Leu Gly
542      515      520      525
546 Pro Asn Ala Ser Pro Asp Gly Leu Ile Pro Trp Thr Arg Phe Cys Lys
548      530      535      540
552 Glu Asn Ile Asn Asp Lys Asn Phe Pro Phe Trp Leu Trp Ile Glu Ser
554 545      550      555      560
558 Ile Leu Glu Leu Ile Lys Lys His Leu Leu Pro Leu Trp Asn Asp Gly
560      565      570      575
564 Cys Ile Met Gly Phe Ile Ser Lys Glu Arg Glu Arg Ala Leu Leu Lys
566      580      585      590
570 Asp Gln Gln Pro Gly Thr Phe Leu Leu Arg Phe Ser Glu Ser Ser Arg
572      595      600      605
576 Glu Gly Ala Ile Thr Phe Thr Trp Val Glu Arg Ser Gln Asn Gly Gly
578      610      615      620

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RAW SEQUENCE LISTING

PATENT APPLICATION US/09/430,806A

DATE: 10/20/2000

TIME: 10:38:11

Input Set : A:\430806a.txt

Output Set: N:\CRF3\10202000\I430806A.raw

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640 Glu Pro Asp Phe His Ala Val Glu Ile Thr Lys Lys Glu Leu Ser
641 625 630 635 640
642 Ala Val Thr Phe Pro Asp Ile Ile Arg Asn Tyr Lys Val Met Ala Ala
643 610 615 620 625
644 Glu Asn Ile Pro Glu Asn Pro Leu Tyr Tyr Leu Tyr Pro Asn Ile Asp
645 600 605 610 615
646 Lys Asp His Ala Phe Gly Tyr Tyr Lys Ser Arg Phe Lys Glu Ala Pro
647 575 580 585 590
648 Glu Pro Met Glu Leu Asp Gly Pro Tyr Gly Thr Gly Tyr Ile Lys Thr
649 550 555 560 565
650 Glu Leu Ile Ser Val Ser Glu Val
651 505 510
652 510- SEQ ID NO: 3
653 511- LENGTH: 582
654 512- TYPE: PRT
655 513- ORGANISM: Homo sapiens
656 514- SEQUENCE: 3
657 Ser Thr Val Met Leu Asp Lys Glu Lys Glu Leu Asp Ser Lys Val Arg
658 1 5 10 15
659 Asn Val Lys Asp Lys Val Met Cys Ile Glu His Glu Ile Lys Ser Leu
660 20 25 30
661 Glu Asp Leu Glu Asp Glu Tyr Asp Phe Tyr Cys Lys Thr Leu Glu Asn
662 35 40 45
663 Arg Glu His Glu Thr Asn Gly Val Ala Lys Ser Asp Glu Lys Glu Glu
664 50 55 60
665 Glu Leu Leu Leu Lys Lys Met Tyr Leu Met Leu Asp Asn Lys Arg Lys
666 65 70 75 80
667 Glu Val Val His Lys Ile Ile Glu Leu Leu Asn Val Thr Glu Leu Thr
668 85 90 95
669 Glu Asn Ala Leu Ile Asn Asp Glu Leu Val Glu Trp Lys Arg Arg Glu
670 100 105 110
671 Glu Ser Ala Cys Ile Gly Gly Pro Pro Asn Ala Cys Leu Asp Glu Leu
672 115 120 125
673 Glu Asn Trp Phe Thr Ile Val Ala Glu Ser Leu Glu Glu Val Arg Glu
674 130 135 140
675 Glu Leu Lys Lys Leu Glu Glu Leu Glu Glu Lys Tyr Thr Tyr Glu His
676 145 150 155 160
677 Asp Pro Ile Thr Lys Asn Lys Glu Val Leu Trp Asp Arg Thr Phe Ser
678 165 170 175
679 Leu Phe Glu Glu Leu Ile Glu Ser Ser Phe Val Val Glu Arg Glu Pro
680 180 185 190
681 Cys Met Pro Thr His Pro Glu Arg Pro Leu Val Leu Lys Thr Gly Val
682 195 200 205
683 Glu Phe Thr Val Lys Leu Arg Leu Leu Val Lys Leu Glu Glu Asn
684 210 215 220
685 Tyr Asn Leu Lys Val Lys Val Leu Phe Asp Lys Asp Val Asn Glu Arg
686 225 230 235 240
687 Asn Thr Val Lys Gly Phe Arg Lys Phe Asn Ile Leu Gly Thr His Thr
688 245 250 255

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VERIFICATION SUMMARY

PATENT APPLICATION US/09/430,806A

DATE: 10/20/2000

TIME: 12:28:12

Input File: A:\430806a.txt

Output Set: N:\CRF3\10202000\I430806A.raw